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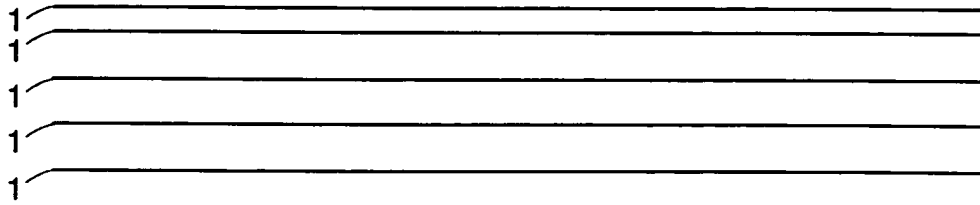


FIG. 1A

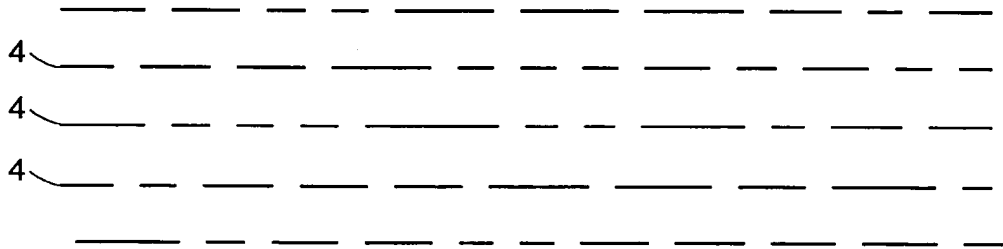


FIG. 1B

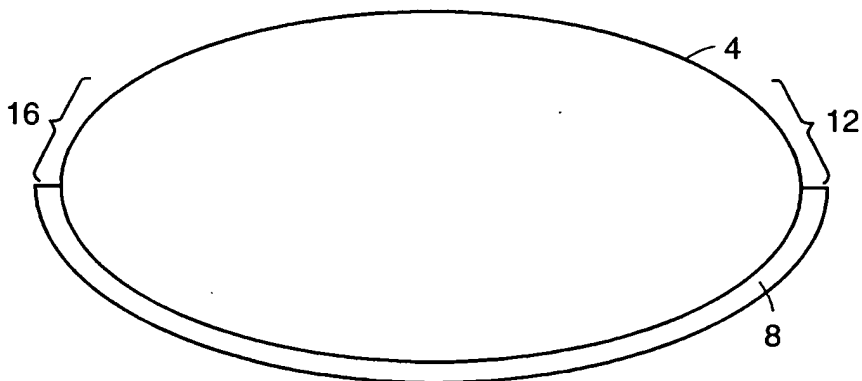


FIG. 1C

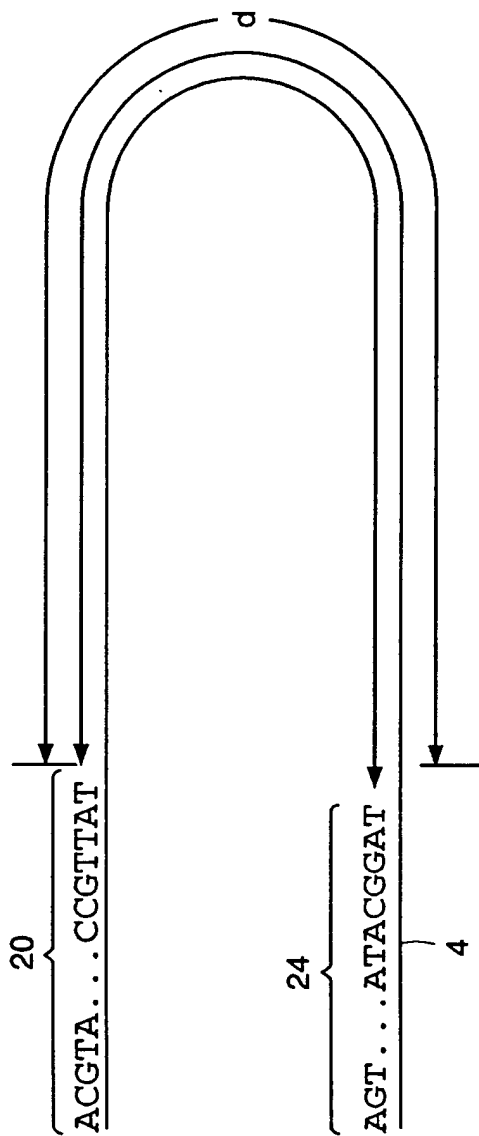


FIG. 1D

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Table of Reads

<u>Read</u>	<u>Sequence</u>
1, F	CCTGCGCC
3, F	TAGCCCTG
14, R	GCCTATCG
50, R	CCCTGCGC
61, F	ATAGCCCT
105, F	AGAGGGTT

Table of Subsequences

<u>Subsequence</u>	<u>Read Number</u>	<u>Read Direction</u>
CCTG	1	F
CTGC	1	F
TGCG	1	F
GCGC	1	F
CGCC	1	F
TAGC	3	F
AGCC	3	F
GCCC	3	F
CCCT	3	F
CCTG	3	F
GCCT	14	R
CCTA	14	R
CTAT	14	R
TATC	14	R
ATCG	14	R
CCCT	50	R
CCTG	50	R
CTGC	50	R
TGCG	50	R
GCGC	50	R
ATAG	61	F
TAGC	61	F
AGCC	61	F
GCCC	61	F
CCCT	61	F
AGAG	105	F
GAGG	105	F
AGGG	105	F
GGGT	105	F
GGTT	105	F

FIG. 2

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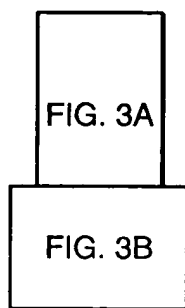


FIG. 3

Table of Sorted Subsequences

<u>Subsequence</u>	<u>Read Number</u>	<u>Read Direction</u>
AGAG	105	F
AGCC	3	F
AGCC	61	F
AGGG	105	F
ATAG	61	F
ATCG	14	R
CCCT	3	F
CCCT	50	R
CCCT	61	F
CCTA	14	R
CCTG	1	F
CCTG	3	F
CCTG	50	R
CGCC	1	F
CTAT	14	R
CTGC	1	F
CTGC	50	R
GAGG	105	F
GCCC	3	F
GCCC	61	F
GCCT	14	R
GCGC	1	F
GCGC	50	R
GGGT	105	F
GGTT	105	F
TAGC	3	F
TAGC	61	F
TATC	14	R
TGCG	1	F
TGCG	50	R

FIG. 3A

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Table of Read Pairs with Common Subsequences

<u>Read Pair</u>	<u>No. of Common Subsequences (Subsequences)</u>
(3, 61)	4 (AGCC, CCCT, GCCC, TAGC)
(3, 50)	2 (CCCT, CCTG)
(50, 61)	1 (CCCT)
(1, 3)	1 (CCTG)
(1, 50)	4 (CCTG, CTGC, GCGC, TGCG)

FIG. 3B

CCTGCGCC^{1, F}
 CCTGCGC^{50, R}
^{3, F}TAGCCCTG GCCTATCG^{14, R}
^{61, F}ATAGCCCT
 ATAGCCCTGCGCCTATCG

FIG. 4

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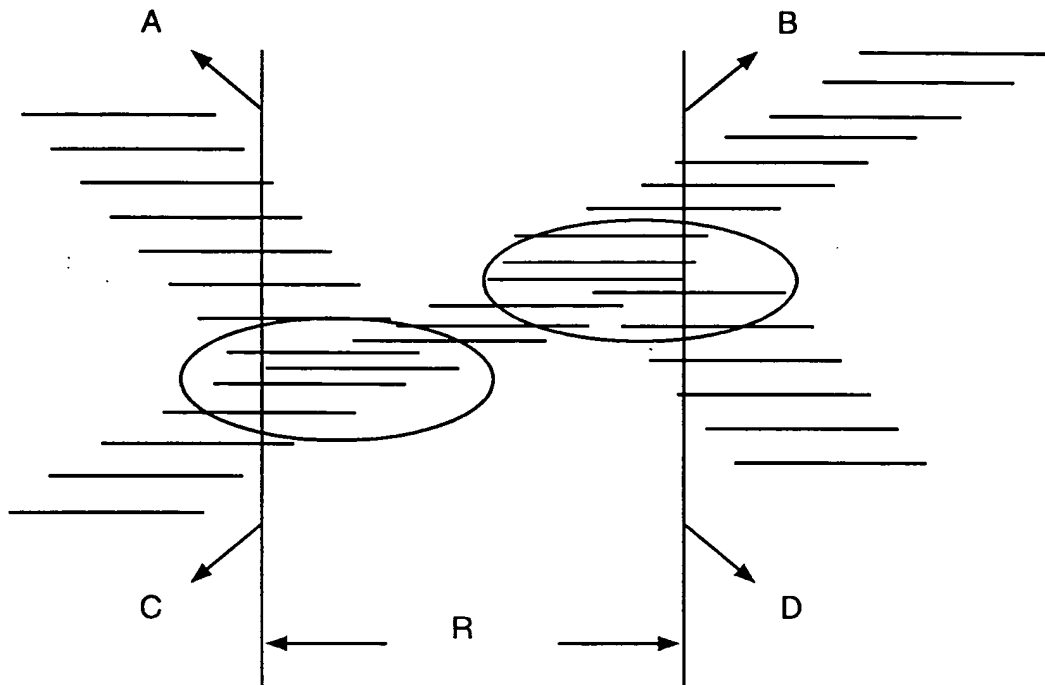


FIG. 5

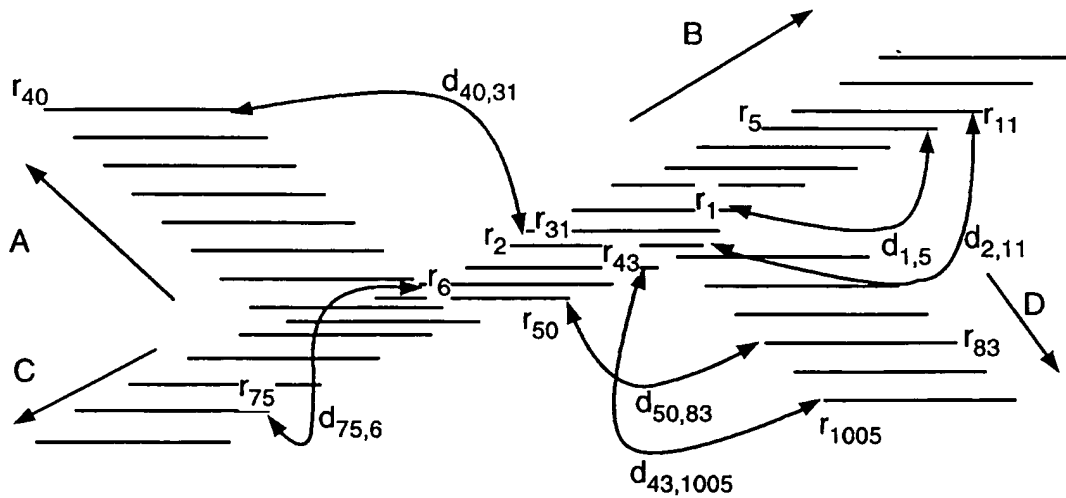


FIG. 6

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```
CGATATAT
GCCGATAT
CGCCGATA
GCGCCCAT      CCTGCGCC
CCCATAGC CTGGGCCT
AGCCCTGC
CCATAGCC TGGCCTA
TAGCCCTG GCCTATCG
ATAGCCCT CCTATCGC
TGATAGCC
ATCGTGAT
ATAGCCCTGCGCC
A → GCGCCC      GATATAT ← B
C → ATCGTG      TATCGC ← D
      |← R →|
```

FIG. 7

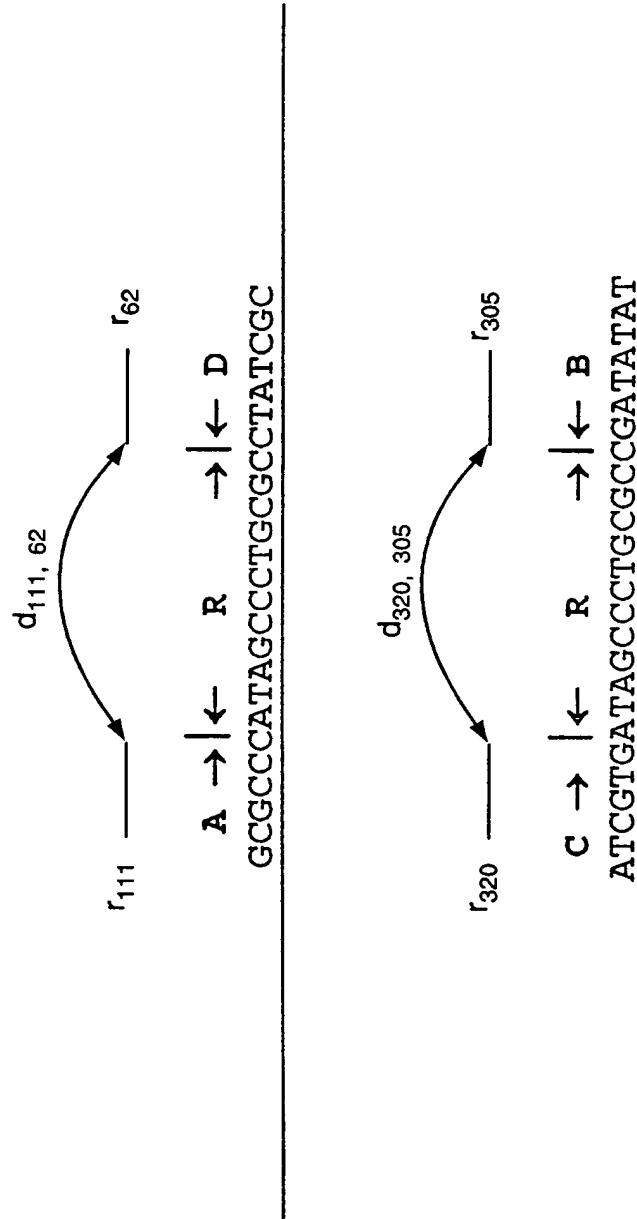


FIG. 8

